

11-3
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59

Geometry

SHOW WORK

Name _____

10-4 worksheet

Similarity ratio = $a:b$

Perimeter ratio = $a:b$

Area ratio = $a^2:b^2$

Given the ratio of two similar figures, find the two missing ratios.

1. Similarity ratio = 5:7

2. Similarity ratio = _____

3. Similarity ratio = _____

4. Similarity ratio = 1:6

Perimeter ratio = _____

Perimeter ratio = 3:8

Perimeter ratio = _____

Perimeter ratio = _____

Area ratio = _____

Area ratio = _____

Area ratio = 4:169

Area ratio = _____

5. Similarity ratio = _____

6. Similarity ratio = _____

7. Similarity ratio = 4:13

8. Similarity ratio = _____

Perimeter ratio = 4:11

Perimeter ratio = _____

Perimeter ratio = _____

Perimeter ratio = _____

Area ratio = _____

Area ratio = 144:289

Area ratio = _____

Area ratio = 81:100

Find the missing values for each pair of similar figures.

9.



$p = 20$

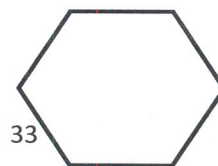
$A = ?$



$p = ?$

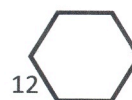
$A = 45$

10.



$p = ?$

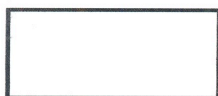
$A = 484$



$p = 60$

$A = ?$

11.



48

$p = ?$

$A = 1152$



30

$p = 90$

$A = ?$

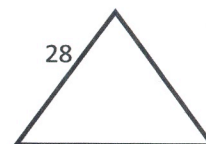
12.



8

$p = 28$

$A = ?$



28

$p = ?$

$A = 294$

$$p = 28$$

$$A = ?$$

$$p = 56$$

$$A = 144$$

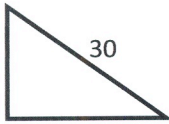
$$p = 108$$

$$A = 324$$

$$p = 60$$

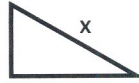
$$A = ?$$

15.



$$p = 75$$

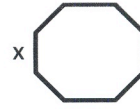
$$A = 175$$



$$p = 45$$

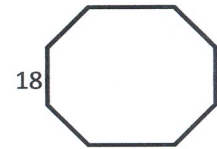
$$A = ?$$

16.



$$p = 44$$

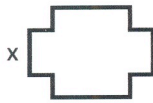
$$A = ?$$



$$p = 99$$

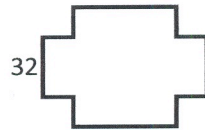
$$A = 405$$

17.



$$A = 720$$

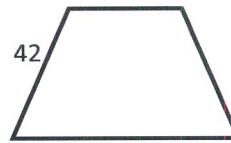
$$p = ?$$



$$A = 1280$$

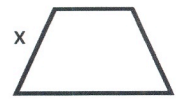
$$p = 192$$

18.



$$A = 288$$

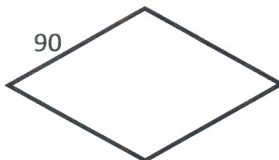
$$p = 162$$



$$A = 200$$

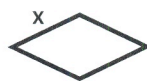
$$p = ?$$

19.



$$A = 400$$

$$p = 360$$



$$A = 36$$

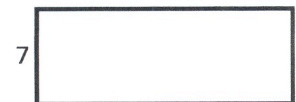
$$p = ?$$

20.



$$A = 45$$

$$p = ?$$



$$A = 245$$

$$p = 84$$

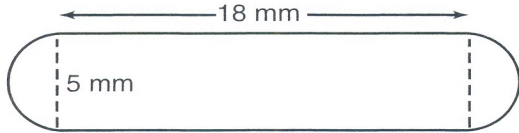
1.7

60

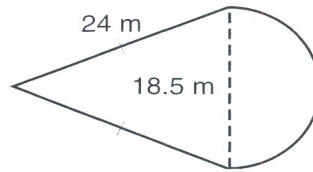
Finding Perimeter

Use a calculator to find the perimeter (the solid lines and curves) of each figure. Use $\pi \approx 3.14$.

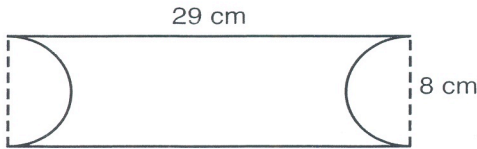
1.



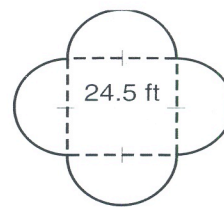
2.



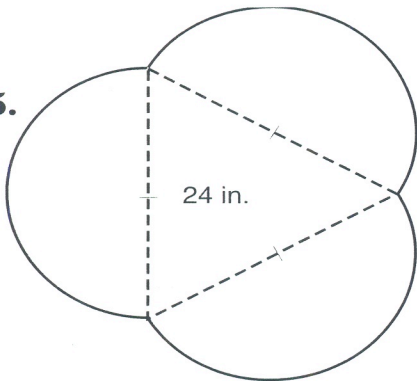
3.



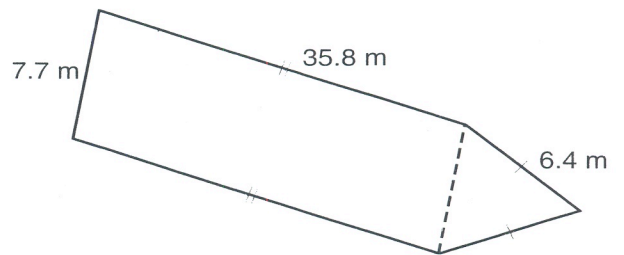
4.



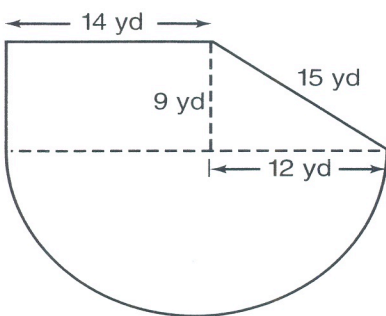
5.



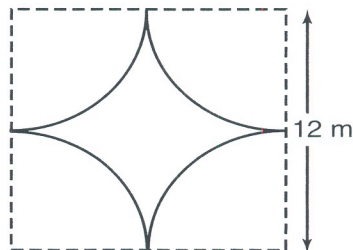
6.



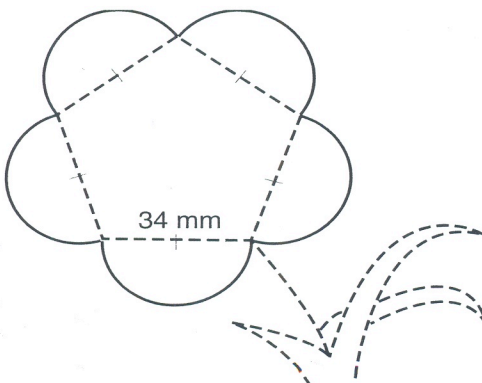
7.



8.



9.



10.

